

551,954

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
21 October 2004 (21.10.2004)

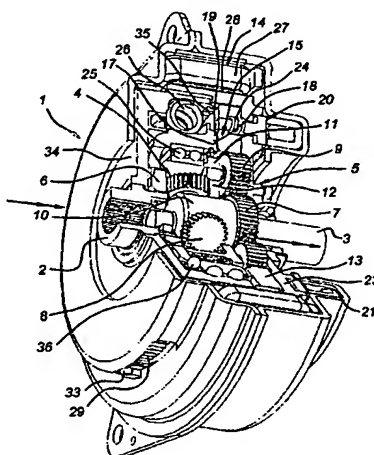
PCT

(10) International Publication Number
WO 2004/090379 A1

- (51) International Patent Classification⁷: **F16H 3/72**
- (21) International Application Number:
PCT/NL2004/000230
- (22) International Filing Date: 8 April 2004 (08.04.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
1023145 10 April 2003 (10.04.2003) NL
- (71) Applicant (for all designated States except US): **AB SKF**
[SE/SE]; Hornsgatan 1, S-415 50 Göteborg (SE).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **EYRAUD**, Emmanuel, Jacques [FR/NL]; Schakelstede 70, NL-3431 HG Nieuwegein (NL). **KAPAAN**, Hendrikus, Jan [NL/NL]; WaterHoen 5, NL-3435 DM Nieuwegein (NL). **ZWARTS**, Jacobus [NL/NL]; Carmenlaan 5, NL-3438 VA Nieuwegein (NL). **MEANEY**, Paul, Bernard [IE/NL]; Eduard Verkadeaan 35, NL-3584 GS Utrecht (NL). **VIS-SERS**, Cornelius, Petrus, Antonius [NL/NL]; Litsersstraat 67, NL-5275 BT Den Dungen (NL).
- (74) Agents: **VAN WESTENBRUGGE**, Andries et al.; Nederlands Octrooibureau, Scheveningseweg 82, P.O. Box 29720, NL-2502 LS The Hague (NL).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— with international search report

[Continued on next page]

(54) Title: **ELECTROMECHANICAL GEAR CLUTCH**



(57) Abstract: A clutch comprises a housing (1), an input shaft (2) and an output shaft (3) rotatably supported with respect to the housing (1), a drive gear set (4) and a control gear set (5) each comprising a first gear (6, 7), a number of pinion gears (8, 9), a carrier (10, 11) onto which the pinion gears (8, 9) are mounted, and a second gear (12, 13), each pinion gear (8, 9) meshing with the corresponding first gear (6, 7) and second gear (12, 13) of the gear set (4, 5), as well as control means (14) for influencing the rotation of a first gear (7) or a second gear (13) of the control gear set. The first gear (6) of the drive gear set (4) is connected to the input shaft (2), the carrier (10) of said drive gear set (4) is connected to the output shaft (3) and the second gear (12) of said drive gear set (4) is connected to the carrier (11) of the control gear set (5), the first gear (7) of the control gear set (5) being connected to the output shaft (3) and the second gear (13) of said control gear set (5) being connected to the control means (14).

WO 2004/090379 A1



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.